

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/057876 A1

(51) International Patent Classification⁷: **H04L 29/06**

Jean-Pierre [FR/FR]; 20 rue de Lorgeril, F-35000 Rennes (FR). BIDAN, Christophe [FR/FR]; 28, rue de la Forêt, F-35235 Thorigné Fouillard (FR).

(21) International Application Number:
PCT/EP2004/003863

(74) Agent: KOHRS, Martin; 46 Quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(22) International Filing Date: 13 April 2004 (13.04.2004)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
03290920.2 11 April 2003 (11.04.2003) EP

(71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46 Quai Alphonse Le Gallo, F-92100 Boulogne Cédex (FR).

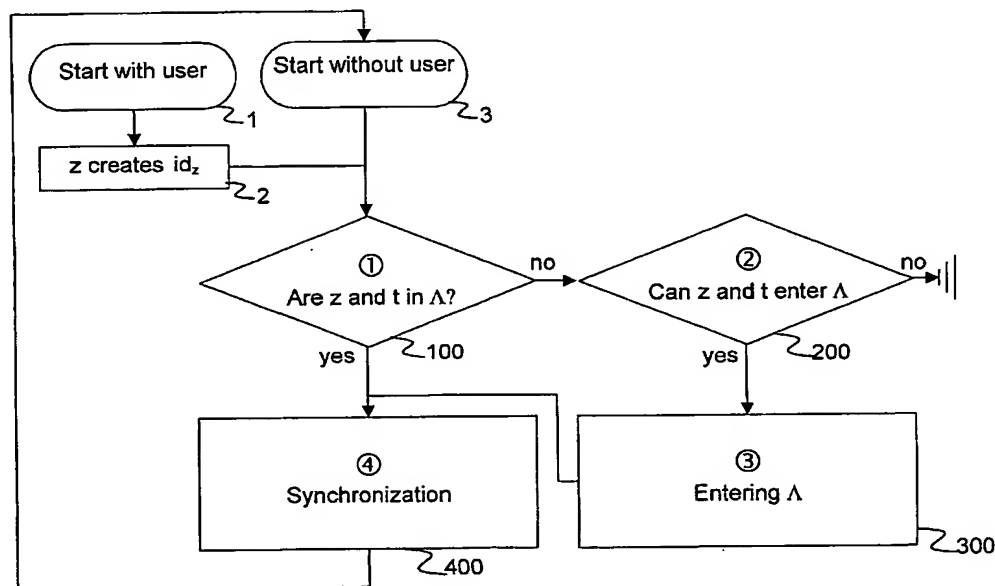
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

(72) Inventors; and

(75) Inventors/Applicants (for US only): PRIGENT, Nicolas [FR/FR]; 31 Rue Henri Le Guillou, Appartement 109, F-35000 Rennes (FR). HEEN, Olivier [FR/FR]; 20 rue des Tournesols, F-35410 Domloup (FR). ANDREAUX,

[Continued on next page]

(54) Title: SECURE DISTRIBUTED SYSTEM FOR MANAGEMENT OF LOCAL COMMUNITY REPRESENTATION WITHIN NETWORK DEVICES



(57) Abstract: Each network device (x) of the system has a local representation of the community to which it belongs by containing: a provable identity (id_x) or means to generate or to obtain a provable identity; objects ($MT(x)$, $UT(x)$, $DT(x)$) capable of memorizing identities of devices of the community having trust relationships with said device; and means for establishing a protocol for trust relationships synchronization.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*